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| **gold** | **Chemistry** | **شعار-القسم** |
| **Making metals** |
| Worksheet-3- |

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| --- | --- |
| Name: Class: 8 /……........ | |
| Book pages: | |
|  | Date:17-4-2012 |
| 8.13.8 | Core Standard number |
| 1.Know how are metals found in nature  2.Know what is an ore  3.Know the ways of extraction of metals from their ores  4. Know that extraction of metals depends on its position in the reactivity series | Learning Objectives  Logo + text 2 |

**A- Introduction:**

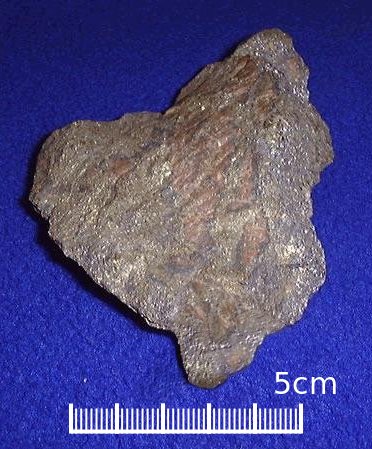
**1**- How are metals found in nature?

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**2-** Examples of ores:



Iron ore



Gold ore



Lead ore

**B- Extracting metals:**

1- List the three types of metals according to their reactivity:

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2- List the two methods of extraction of metals

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3- Extracting metals by using carbon

a- Which metals are extracted by using carbon?

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b- Example

lead oxide + carbon  ………………… + ………………………….

Iron(III) oxide + carbon  …………………. + ………………………….

Generalization : metal oxide + carbon  metal + carbon dioxide

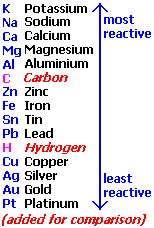
4- Extracting metals by using electricity

Metals of high reactivity are extracted by electrolysis.

5- Extracting metals of low reactivity.

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6- State the factors which the extraction of metals depends on?



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